

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DE2004/002676

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16C35/067 F16C19/18 B60B27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16C B60B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | US 3 749 416 A (ASBERG S, SW) 31 July 1973 (1973-07-31) column 4, line 1 - line 64; figures 1-6 ----- | 1, 3, 6-8 |
| A | GB 2 272 028 A (KABUSHIKI KAISHA * SANKYO SEIKI SEISAKUSHO) 4 May 1994 (1994-05-04) page 6, line 12 - page 9, line 10; figures 1, 4 ----- | 1, 6, 8 |
| A | WO 95/13198 A (THE TIMKEN COMPANY; DRIVER, RICHARD, CHARLES; WRIGHT, ALAN, JOHN; BURR) 18 May 1995 (1995-05-18) page 7, line 23 - page 9, line 27; figures 4, 5 ----- -/-- | 1, 4-9 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

8 April 2005

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| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | US 4 729 252 A (HUEBER ET AL) 8 March 1988 (1988-03-08) column 3, line 4 - column 5, line 15; figures 1,2 ----- | 1,4,5, 7-9 |
| A | EP 0 561 437 A (SKF INDUSTRIAL TRADING & DEVELOPMENT CO, B.V) 22 September 1993 (1993-09-22) column 5, line 13 - line 25; figure 5 ----- | 1,3,6-9 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2004/002676

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| US 3749416 | A | 31-07-1973 | NL 7001649 A | 09-08-1971 |
| | | | DE 2104929 A1 | 23-09-1971 |
| | | | DE 2104930 A1 | 14-10-1971 |
| | | | DE 2105122 A1 | 03-02-1972 |
| | | | DE 2105123 A1 | 02-09-1971 |
| | | | FR 2079272 A5 | 12-11-1971 |
| | | | FR 2079273 A5 | 12-11-1971 |
| | | | FR 2079274 A1 | 12-11-1971 |
| | | | FR 2078279 A5 | 05-11-1971 |
| | | | GB 1347995 A | 27-02-1974 |
| | | | GB 1347996 A | 27-02-1974 |
| | | | GB 1347997 A | 27-02-1974 |
| | | | JP 54172403 U | 05-12-1979 |
| | | | JP 60034481 Y2 | 15-10-1985 |
| | | | JP 54172404 U | 05-12-1979 |
| | | | JP 54172435 U | 05-12-1979 |
| | | | JP 60034482 Y2 | 15-10-1985 |
| | | | JP 54173403 U | 07-12-1979 |
| | | | SE 379968 B | 27-10-1975 |
| | | | US 3774933 A | 27-11-1973 |
| GB 2272028 | A | 04-05-1994 | JP 2578623 Y2 | 13-08-1998 |
| | | | JP 6036340 U | 13-05-1994 |
| | | | CN 1086933 A ,C | 18-05-1994 |
| WO 9513198 | A | 18-05-1995 | WO 9513198 A1 | 18-05-1995 |
| US 4729252 | A | 08-03-1988 | DE 3004316 A1 | 27-08-1981 |
| | | | FR 2475166 A1 | 07-08-1981 |
| | | | GB 2068481 A ,B | 12-08-1981 |
| | | | IT 1135171 B | 20-08-1986 |
| | | | JP 56120821 A | 22-09-1981 |
| EP 0561437 | A | 22-09-1993 | NL 9200511 A | 18-10-1993 |
| | | | DE 69303076 D1 | 18-07-1996 |
| | | | DE 69303076 T2 | 28-11-1996 |
| | | | EP 0561437 A1 | 22-09-1993 |
| | | | ES 2088217 T3 | 01-08-1996 |
| | | | JP 2593837 B2 | 26-03-1997 |
| | | | JP 8028577 A | 02-02-1996 |
| | | | US 5486053 A | 23-01-1996 |